

Tentative Scientific Program of ICSM-2020

13th December 2020 (10:00 AM-03:00 PM) Workshop on Polymers for Energy Conversion and Storage	
10:00-10:15	Inauguration of the workshop by Prof. Y. K. Vijay, Vice President, SMRS India
10:15-11:00	Workshop Lecture-1: Prof. Chan Chin Han, Universiti Teknologi MARA, Malaysia
11:15-12:00	Workshop Lecture-2: Prof. Myung Han Yoon, GIST, Gwangju, South Korea
12:15-01:00	Workshop Lecture-3: Dr. Soumyadeep Chaudhary, Technische Universität Chemnitz, Germany
01:00-02:00	Lunch Break
14:00-14:45	Workshop Lecture-4: Dr. Arindam Indra, IIT(BHU), India
13th December 2020 (03:00 PM-05:00 PM) Inauguration of ICSM 2020	
Session 1:	
15:00- 15:05	Welcome of the Dignitaries/Participants and about ICSM2020 by Dr. Kamendra Awasthi
15:05- 15:15	Welcome address and About SMRS by Prof. Y. K. Vijay, Vice President, SMRS India
15:15- 15:35	Welcome address by Prof. Udaykumar R Yaragatti, Director MNIT Jaipur
15:35-15:55	Inaugural Talk by Prof. Ashutosh Sharma, Secretary, DST, Govt. of India
15:55-16:00	Technical Briefing about Online ICSM2020 by Dr. Bhagwati Sharma and Dr. Debasish Sarkar
16:00-16:05	Vote of thanks by Dr. Sujin B Babu

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Session 2:

09:00-09:35	IT-1	Irmgard Bischofberger MIT Cambridge, USA	Pattern Formation from Instabilities in Fluids and Elastic Media
09:35-10:10	IT-2	P B Sunil Kumar IIT Palakkad, Kerala, India	Active remodeling of chromatin and implications for in-vivo folding
10:10-10:45	IT-3	S. Krishna Prasad CeNS, Bengaluru, India	Anisotropic fluorescence and its electric field modulation in composites of nematic-quantum cuboids/discotic fluorophores
10:45-10:55	C-1	Mylapalli Praveen Kumar University of Hyderabad, India	Smectic-like rheology and pseudo-layer compression elastic constant of a twist-bend nematic liquid crystal
10:55-11:05	C-2	Chandra Has IIT Palakkad, India	Colloidal Fingering in Miscible Liquids due to Double Mass Diffusive Convection
11:05-11:15	C-3	Paolo Magaretti Helmholtz-Institut Erlangen Nürnberg, Germany	Dynamics of active polymer chains
11:15-11:25	C-4	K. V. S. Chaithanya IIT Madras, Chennai	Deformation dynamics of an active compound particle in a shear flow

Session 3:

11:30-12:05	IT-4	Roland Winkler FZJ, Julich, Germany	Active Turbulence in Microswimmer Systems
12:05-12:40	IT-5	Christophe Ybert University of Lyon, France	Dense assemblies of active colloids

Flash Talks (F1-F10A)

12:40-01:30	F-1	<i>JIMPAUL SAMUKCHAM</i> NIT Manipur	<i>Studying the dynamics of complex liquid by changing particle softness</i>
	2	<i>URIKHINBAM SOMAS SINGH</i> NIT Manipur	<i>Effect of anion size on the liquid-solid transition temperature of Ionic liquid</i>
	3	<i>JACKSON PAME</i> NIT Manipur	<i>Transport Properties of 2D Polydisperse Lennard Jones Fluid</i>
	4	<i>CHANDRAGIRI SANTHAN</i> IIT Madras	<i>Active nematic fluids in 3-dimensional channels</i>

	5	KATARIYA KANUBHAI DULABHAI MSU, Baroda	<i>New Fluorinated Azo/Schiff Base Liquid Crystals: Synthesis, Mesophase behaviour and DFT calculations</i>
	6	KIRAN JASHRAJBHAI NAKUM MSU Baroda	<i>Mesomorphism Dependence on Molecular Flexibility in a Series of Schiff base of 4-n-alkoxy-2-hydroxy benzaldehyde with thiophene derivatives</i>
	7	ARCHANA KUMARI SINGH MMM Univ of Technology	<i>Band-gap-tailoring in Liquid Crystals: An Observation, Using DFT Calculations</i>
	8	BUCHAI AH GOLLAPELLI NIT Warangal	<i>Cholesteric Liquid Crystal Droplets for the Detection of Bile Acids</i>
	9	MISHRA SHWETA RAVINDRA BITS Pilani	<i>Dielectric spectroscopy studies of silver nanorod doped nematic liquid crystal</i>
	10	SANTOSH MANI K J Somaiya College of Engineering	<i>Investigation of Phase Transition Temperatures of Pure and Mixtures of Liquid Crystals and its potential applications</i>
	10-A	HIMCHAN OH Electronics and Tel. Research Institute, Republic of Korea	<i>Stretchable Oxide Thin Film Transistors</i>
13:30- 14:00	Lunch Break		
Session 4:			
14:00- 14:35	IT-6	Franz Faupel University of Kiel, Germany	Functional nanocomposites and organic thin films - from gas phase synthesis to applications
14:35- 15:10	IT-7	Chan Chin Han Universiti Teknologi MARA, Malaysia	Low Frequency Dielectric Relaxation and Conductance of Solid Polymer Electrolytes with PEO and Blends of PEO and PMA or PMMA
15:10- 15:45	IT-8	Y K Mishra Univ. of Southern Denmark, Denmark	3D Tetrapod based Smart Materials for Advanced Technologies
15:45-15:55	C-5	Stefan Reinicke Fraunhofer IAP, Potsdam Golm, Germany	Thiolactone functionalized polymers for enzyme immobilization and beyond
15:55-16:05	C-6	Ravi Tejasvi Pt DP Univ Gandhinagar, India	Single-step Fabrication of Multifunctional Thin Film Heterojunctions using the Centrifuge assisted Solvent Non-evaporative Method
16:05- 16:15	C-7	Blaise Lobo Karnatak Univ., Dharwad, India	In-situ formation of silver nanoparticles in polyvinyl alcohol and the effect of UV-C irradiation on the electrical conductivity and optical spectra of this hybrid material
16:15-16:25	C-8	Md Osim Aquatar CSIR-NEERI, Nagpur, India	Green Graphene: An Eco-friendly synthesis approach

Flash Talks (F 11-F20)

16:25-17:30	F-11	MRINAL GAUTAM RTU Kota	<i>Recent Development in Processing Functionally Graded Polymer Nanocomposites</i>
		PRIYANKA SAHU IIT Roorkee	<i>Phase evolution and statistical modeling of hysteresis curve in Fe-Co-Ni medium entropy alloys using multilayer artificial neural network (ANN) coupled with genetic algorithm</i>
		PEDDAVARAPU SIVAKUMAR Presidency University	<i>Structural, optical and electrical properties of Ti: SnO₂ thin films for transparent electrodes in solar cell applications</i>
		RAJESH SAHU Manipal Univ. Jaipur	<i>Visible-Light Induced Photocatalytic Activity of MWCNTs-CdS composites via Efficient Interfacial Charge Transfer</i>
		SATADRU CHAKRABARTY IIT Gandhinagar	<i>Unintended Transformation of Organic Solvents into Photoluminescent Quantum Dots during Ultrasonication Assisted Liquid Phase Exfoliation</i>
		SANJAY PACHORI Banasthali Vidyapith	<i>Mechanically and thermally stable with highly absorptive formamidinium based (FA (HC(NH₂)₂PbX₃; X = Br, Cl) hybrid perovskites: An ab initio study</i>
		DEEPAK NEGI MNIT Jaipur	<i>Systematic study of structural and optical properties of MgTiO₃ thin films with annealing temperature</i>
		JYOTI YADAV MNIT Jaipur	<i>Structural and Electrical transport properties of Swift heavy ion irradiated BiSbTe₃ thin films</i>
		ATIREK GAUR MNIT Jaipur	<i>ANALYSIS OF AIR JET EROSION BEHAVIOUR AND TRIBOLOGICAL BEHAVIOUR OF AL6061 ALLOY GRAPHENE OXIDE COMPOSITE</i>
	F-20	PRANSHULA PANIGRAHI CIPET-SARP:LARPM, Bhubaneswar	<i>Synthesis and Characterization of Carbazole based Terpolymers as Donor Materials for Perovskite Solar Cell Applications</i>

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Session 5:

09:00-09:35	IT-9	Raymond Kapral Univ. of Toronto, Canada	Molecular Description of the Dynamics of Very Small Diusiophoretic Motors
09:35-10:10	IT-10	Jasna Brujic New York University, USA	Emulsion folding
10:10-10:45	IT-11	Madivala G Baswaraj IIT Madras, India	Spreading of oil drops on surfactant laden liquids
10:45-10:55	C-9	Debasish Saha BARC, Mumbai, India	Tuning of the unfolding of Bovine Serum Albumin by mixed anionic-cationic surfactants
10:55-11:05	C-10	Dinesh Kumar Sahu Univ. of Hyderabad, India	Omnidirectional transport and navigation of Janus particles through a nematic liquid crystal film
11:05-11:15	C-11	Geetha G Nair CeNS, Bengaluru, India	Tunable Fano Resonance in a Liquid Crystalline Colloidal Metamaterial
11:15-11:25	C-12	Kai Qi CECAM-HQ-EPFL, Switzerland	Unravel the rotational properties of a squirmer in viscoelastic fluids

Session 6:

11:30:12:05	IT-12	Christos N Likos University of Vienna, Austria	Equilibrium and flow properties of ring polymers
12:05-12:40	IT-13	Holger Stark Technical Univ. Berlin, Germany	Microswimmers: Their emergent behavior under gravity and smart navigation

Flash Talks (F21-F33)

12:40-13:30	F-21	<i>SUPARNA KHATUN</i> IIT Kharagpur	<i>Fractal selassembly and aggregation of human amylin</i>
	22	<i>ANURAG SINGH</i> IIT Kharagpur	<i>Anisotropy versus fluctuations in the fractal selassembly of gold nanoparticles</i>
	23	<i>SUPRIYA GUPTA</i> IIT Delhi	<i>Chiral selassembly of achiral block copolymers via nanoconfinement</i>
	24	<i>SWATILEKHA PRATI HAR</i> IIT Madras	<i>Fine-tuning aggregated state emission and back electron transfer in anthracene based donor-?-acceptor isomers</i>

	25	RAGHUNATHA C Bangalore University	Macroscopic Dipole-Dipole Repulsive Interaction in Fluid Medium
	26	POTHUKUCHI NAGA VENKATA RAJESH PAVAN IIT Gandhinagar	Building hierarchical structures through charge driven self-assembly of polymer grafted nanoparticles
	27	SARTHAK GUPTA Syracuse University	Vimentin mediates nuclear dynamics during confined cell motility
	28	BHADRA HRISHIKESH IIT Madras	Collective dynamics of rotating active particles with attraction
	29	ABHIK SAMUI IIT Madras	Temperature effects in flow transitions for an active nematic confined in 3d rectangular channel
	30	PRAJITHA MOTTAMMAL IIT Madras	Dynamics of microswimmers laden fluid-fluid interface mediated by self-induced Marangoni flow
	F-31	SUBRAMANYAN NAMBOODIRI VARANAKKOTTU, NIT Calicut	Reconfigurable capillary forces for the transport and merging of cargo drops on liquid substrates
13:30- 14:00	Lunch break		
Session 7:			
14:00- 14:35	IT-14	Andreas Fery IPF Dresden, Germany	Supra-colloidal structures for photonics and sensing
14:35- 15:10	IT-15	Volker Abetz Univ. of Hamburg, Germany	Synthesis and Solution Properties of Stimuli-responsive (Co)polymers
15:10- 15:45	IT-16	E Bhoje Gowd NIIST Thiruvananthapuram, India	Directed Assembly of Hierarchical Supramolecular Block Copolymers
15:45-15:55	C-13	Khairil Juhanni Abd Karim UTM, Skudai, Malaysia	Synthesis of Hydrogels from Sugarcane Bagasse Extracted Cellulose with Cross-Linkers for Swelling Properties Study
15:55-16:05	C-14	Ronald Benjamin Cochin Univ. of Science &Tech., India	Solids and Liquids at interfaces
16:05- 16:15	C-15	TOBIAS A.F. KÖNIG IPF Dresden, Germany	Functional optical surfaces by colloidal self-assembly
16:15-16:25	C-16	Anees Ahmed Yunus Khan Manipal Univ., Jaipur, India	Macroporous hydrophobic sponges for oil-water separation
Flash Talks (F32-F41)			

16:25-17:30	F-32	NURULAIN BINTI MAHADIN Universiti Teknologi Malaysia	<i>Synthesis and Characterization of Sugarcane Bagasse Cellulose-based Semi-Interpenetrating Hydrogel for Water Retaining and Slow-Release of Fertilizers</i>
	33	BHAWANA KHARAYAT Banasthali Vidyapith	<i>Improvement of activity of L-methioninase from Pseudomonas stutzeri by Immobilization Techniques</i>
	34	VARUN BIREN DOLIA IIT Gandhinagar	<i>Dissimilar Adsorption of Methylene Blue Species on Graphene Oxide: An Optical Spectroscopic Perspective</i>
	35	HAMZAH GAMAL ALLOZY Universiti Teknologi Malaysia	<i>Optimization of Synthesis of Poly (vinylbenzyl chloride) by RAFT Polymerization for Copper Removal</i>
	36	DEBJYOTI BHATTACHARYA IIT Madras	<i>AI and Machine Learning for Predicting Phase transitions in Polymers</i>
	37	VAIBHAV RAJ SINGH PARMAR Raman Research Institute	<i>Effect of aging on Cracking of desiccating Laponite suspensions</i>
	38	SHRUTHI S IYENGAR Bangalore University	<i>Studies on the stability and dynamics of nanoparticles in suspensions of varying viscosities using optical tweezers</i>
	39	SHAGOLSEM LENIN SINGH NIT Manipur	<i>Order and phase behavior of ring and linear copolymer blends under confinement</i>
	40	THOUDAM VILIP SINGH NIT Manipur	<i>Energy polydisperse polymers: Collapse transition and force extension behaviour</i>
41	YOGENDRA K SARASWAT SV College, Aligarh	<i>Modification in Mechanical Properties of PC/PS blend nanocomposites</i>	

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Session 8:

09:00-09:35	IT-17	Yen Wah Tong NUS, Singapore	Detection of cortisol in human saliva using molecularly imprinted polymers on cyclic
09:35-10:10	IT-18	Avanish Parmar IIT-BHU, Varanasi, India	Multifunctional Nanodots for Sensing and Bioimaging
10:10-10:45	IT-19	Prashant Mishra IIT Delhi, India	Advances in Biosensors for Bacterial Detection
10:45-10:55	C-17	Sasmita Majhi NIT Raipur, India	Investigation of antibacterial activity of antimicrobial peptide (AMP) tethered stainless steel
10:55-11:30	IT-20	Michael Schmiedeberg Friedrich-Alexander-Univ. Erlangen Nürnberg, Germany	Gel networks in colloid-polymer mixtures
11:30:12:05	IT-21	Andrij Pich DWI Aachen, Germany	Adaptive Colloidal Catalysts based on Stimuli-Responsive Microgels
12:05-12:40	IT-22	Wuge Briscoe University of Bristol, Bristol, UK	Self-assembly and interactions of bacterial lipids

Flash Talks (F-42-F52)

12:40-13:30	42	MATTHIAS GIMPERLEIN <i>Institut Für Theoretische Physik1, Germany</i>	<i>Structural properties of gel networks</i>
	43	RINKI SINGH <i>IIT Indore</i>	<i>Efficient biocompatible hydrogel with high pH sensitivity as an effective dye adsorbent: potential applications in wastewater treatment</i>
	44	PRASHANT THAPLIYAL <i>Indian Military Academy Dehradun</i>	<i>Investigation of flow and wettability behavior of Hex-BN nanofluids</i>
	45	LEKSHMI B S <i>NIT Calicut</i>	<i>Impact based rapid production of multi-particle Liquid Marbles</i>
	46	ANU MALHOTRA <i>Subodh College Jaipur</i>	<i>Study of adsorbent characteristics of coconut coir for removal of Chlorophenols</i>
	47	DIVYA SHARMA <i>Univ. of Rajasthan, Jaipur</i>	<i>Green synthesis of Nanoparticles using Plant Extract and its antibacterial activity</i>

	48	<i>KULBHUSHAN KUMAR KUMAUN UNIV. NAINITAL</i>	<i>Assessment of Arsenic Trioxide in vital organs of Rattus norvegicus</i>
	49	<i>VANDANA NUNIA University of Rajasthan, Jaipur</i>	<i>Optimization and enrichment of nanofertilizers using microbial enzymes/organic acids by reducing the oxides in the field condition for better crop yield</i>
	50	<i>DEEPIKA CHAUHAN Jawaharlal Nehru University</i>	<i>Assessment of biocompatibility profile of gadolinium oxide nanorods and the analogous surface-functionalized nanorods</i>
	51	<i>ARYA JS IIT Madras</i>	<i>Pyrediyne Quantum Dots for Bioimaging of Cancer Cells</i>
	52	<i>P. J. JOHN University of Rajasthan, Jaipur</i>	<i>Effects of Iron Oxide Nanoparticles on Sperm Health and Reproductive Hormones in Wistar rat</i>
13:30- 14:00	Lunch break		
Session 9:			
14:00- 14:35	IT-23	Alexander Boker Fraunhofer IAP, Potsdam Golm, Germany	Imparting Biological Functions to Artificial Materials: From Active Membranes to Self-Replication
14:35- 15:10	IT-24	Susanta Banerjee IIT Kharagpur, India	Recent development on phosphine oxide and pyridine moieties containing sulfonated polytriazoles for proton exchange membranes for fuel cell application
15:10- 15:45	IT-25	Lidietta Giorno CNR-ITM, Italy	Biohybrid membranes with catalytic and recognition properties
15:45-15:55	C-18	Asheesh Singh IIT Kharagpur, India	Membrane Properties of Sulfonated Polytriazoles with Molecular Branching
15:55-16:05	C-19	Kirti Sankhala Technion, Haifa, Israel	Isoporous hollow fiber membranes: factors controlling the structure formation
16:05- 16:15	C-20	Sayantana Majumdar Raman Research Institute, Bengaluru	Signature of jamming under steady shear in dense particulate suspensions
16:15-16:25	C-21	Pradipta Chattopadhyay BITS Pilani, India	Recent Progress on Enhancement of Foam Stability and its Latest Applications in Enhanced Oil Recovery
Flash Talks (F53-F61)			

16:25-17:30	53	<i>NISHEL SAINI MNIT Jaipur</i>	<i>Conjugate polymer-based membranes for gas separation applications</i>
	54	<i>HARSH DINESBHAI PATEL MS Univ. Baroda</i>	<i>Gas permeation and thermal properties of thermally rearranged (TR) HAB-6FDA polymer nanocomposite membranes</i>
	55	<i>ROSALIN RATH School for Advanced Research in Polymers</i>	<i>Highly Selective Polyvinylidene fluoride (PVDF) based nanocomposite membranes for fuel cell applications</i>
	56	<i>NAVDEEP SANGVA University of Rajasthan, Jaipur</i>	<i>Nanoparticles used in Treatment of Membrane Biofouling</i>
	57	<i>ANKUSH AGRAWAL University of Rajasthan, Jaipur</i>	<i>Antibiofouling and Antibacterial Activity of Polymeric Nanocomposite Membrane</i>
	58	<i>VIBHAV K SARASWAT Indian Military Academy</i>	<i>Effect of Nanofiller TiO₂ on Structural and Optical Properties of PC/PS Blend Nanocomposites</i>
	59	<i>NEHA AGRAWAL DRDO</i>	<i>Nano-Cubes over Nano-Spheres': Shape dependent study of silver nanomaterial for biological applications</i>
	60	<i>TAMAL SARKAR Raman Research Institute</i>	<i>Novel Nanocomposite Gel for Adsorption of Dye</i>
	61	<i>DINESH PSG COLLEGE of TECHNOLOGY</i>	<i>Smart Materials for Structural Health Monitoring: A Review on Fundamentals and Applications in Flexural Members</i>

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Session 10:

09:00-09:35	IT-26	Myung Han Yoon GIST, Gwangju, South Korea	3D Monolithic Network Electrodes Via Self-fusion of Conducting Polymer Microfibers
09:35-10:10	IT-27	Takashi Nakanishi NISM, Ibaraki, Japan	Solvent-free Functional Molecular/Polymer Fluid towards Luminescent and Stretchable Electret Applications
10:10-10:45	IT-28	Krishna Nama De Montfort Univ. Leicester, UK	Doped and Un-doped Silicon Nanowires for Photovoltaic Applications
10:45-10:55	C-22	Surajit Ghosh MNIT Jaipur	Rapid precipitation-free synthesis of zinc oxide nanowire arrays
10:55-11:05	C-23	Sonalika Agrawal MNIT Jaipur	Effect of Pd@PdO nanoparticles on ZnO nanoflowers for enhanced hydrogen sensing properties
11:05-11:15	C-24	Rajesh Kumar Hiroshima University, Japan	Investigation of Sodium generation by Sodium oxide decomposition for Water splitting by Sodium Redox cycle
11:15-11:25	C-25	Kamakshi MNIT Jaipur	Optical Properties of Polymer ZnO Nanocomposite Thin Films

Session 11:

11:30:12:00	IT-29	Eduard Llobet Univ. Rovira i Virgili, Tarragona, Spain	Synthesis and modification of graphene and transition metal dichalcogenides for gas sensing
12:00-12:30	IT-30	Sudeshna Chattopadhyay IIT Indore, India	Soft matter nanocomposites and its applications :Effect of interface to control structure and properties

Flash Talks (F-62-F71)

12:30-13:30	62	<i>PRASHANT SHARMA</i> <i>MNIT JAIPUR</i>	<i>Palladium-oxide Extended Gate Field Effect Transistor as pH Sensor</i>
	63	<i>SANJAY KUMAR</i> <i>MNIT JAIPUR</i>	<i>Synthesis and characterizations of hollow-cone assembled ZnO nanoflowers for gas sensing application</i>

	64	AYUSMIN PANDA School for Advanced Research in Polymers	<i>Fabrication and Characterization of Barium Strontium Titanate Polymeric Foam towards Piezoelectric Application</i>
	65	NEERU SHARMA MNIT Jaipur	<i>Effect of Solvents and Calcination on Morphology of rGO-LaFeO₃ Composites for Possible Gas Sensing Studies</i>
	66	YUVIKA SOOD Lovely Professional University	<i>Synthesis and Properties of Polypyrrole based Hybrid nanocomposites for Sensing Applications</i>
	67	SALONI MEHRA Amity University Noida	<i>Natural Soy Protein Based Hydrogel For Superabsorbent Application</i>
	68	RITU CHAUDHARI Indira Gandhi Delhi Tech. Univ.	<i>Study of stable BiI₃-PMMA composite pellets for X ray switching characteristics</i>
	69	DINESH KUMAR YADAV University of Rajasthan, Jaipur	<i>Study of CNT intercalated Bi₂O₃/PVDF composite for super capacitors applications</i>
	70	ANJU YADAV University of Rajasthan, Jaipur	<i>Effect of BaTiO₃ nanofillers on the energy storage performance of polymer nanocomposites</i>
	71	ALEKHIKA TRIPATHY CIPET	<i>Flexible BFO/PVDF Nanocomposite Films for Piezoelectric Energy Harvester</i>

13:30- 14:00

Lunch Break

Session 12:

14:00- 14:35	IT-31	Kaustubha Mohanty IIT Guwahati, India	Novel Catalysts for Biofuel/Biofuel-additives Synthesis
14:35- 15:10	IT-32	Anjum Qureshi Sabanci Univ., Istanbul, Turkey	Nanobiosensor Platforms for Disease Diagnostic Applications
15:10- 15:45	IT-33	Dhiraj Bhatia IIT Gandhinagar, India	Three Dimensional DNA Nanodevices to Probe and Program Biological Systems
15:45-15:55	C-26	Priyanka Singh Banasthali Vidyapeth	Improvement of production of L-methioninase from Pseudomonas stutzeri by partitioning study using polymeric phase system
15:55-16:05	C-27	Alekha Tyagi IIT Kanpur, India	MnFe ₂ O ₄ impregnated on reduced graphene oxide (RGO) for electrocatalysis of oxygen reduction reaction
16:05- 16:15	C-28	Anurag Kumar Singh BHU, Varanasi, India	Lipid Coated Mesoporous Silica Nanoparticle Mediated Brain Targeted Delivery of Berberine: Preparation, Characterization, In vitro and In vivo Evaluation

16:15-16:25	C-29	Nidhi Pareek Central University of Rajasthan	Extraction and Physico-chemical Properties Assessment of Chitin and Chitosan from Fish Scales
Flash Talks (F-72-F83)			
16:25-17:30	72	GAJRAJ SINGH VERMA Univ. of Rajasthan, Jaipur	<i>Effects of Iron Oxide Nanoparticles on Sperm Health and Reproductive Hormones in Wistar rat</i>
	73	SAHANA K. SHRIDHAR Bangalore University	<i>Study of population dynamics of Vorticella and Rotifers using Lotka-Volterra model</i>
	74	ANKITA SHARMA Univ. of Rajasthan, Jaipur	<i>Advanced Electrochemical biosensing approach based on Nucelic acid aptamers and Split-aptamers and its Challenges</i>
	75	PRAVEEN KAUR Univ. of Rajasthan, Jaipur	<i>Nanomaterials based Electrochemical Non enzymatic biosensors to Monitoring Glucose in Diabetes</i>
	76	AWADHESH KUMAR VERMA Jamia Millia Islamia New Delhi	<i>Fluorescent ZnO Quantum Dot Probe to study Glucose-Glucose oxidase interaction via FRET; used in Biosensors for Glucose Sensing</i>
	77	ANITA GUPTA Chitkara University, Punjab	<i>Applications of Mannose-binding Lectins and Mannan glyco-conjugates in Nanomedicine</i>
	78	MONISHA SINGHAL IIS, Jaipur	<i>Designing, Synthesis And Optimization Of Silver Nanoparticles Using Punica Granatum Leaves</i>
	79	KANDARP SOJITRA IIT Gandhinagar	<i>Studying the Unfolding Behaviour of ???D Crystallin using Molecular Dynamics Simulations</i>
	80	HIMANI HOODA BANASTHALI VIDYAPITH	<i>Synthesis of silver nanoparticle for quercetin and Its Therapeutic Application in Diabetes</i>
	81	PRIYANKA KUMARI CSIR-CIMAP	<i>Green cellulose nanofibers for controlled drug release of curcumin</i>
	82	NABYA NEHAL Banasthali Vidyapith	<i>Role of nanotechnology for improving properties of biosurfactant from newly isolated bacterial strains from Rajasthan</i>
83	SAPNA THAKUR Eternal University	<i>Synthesis of CE@Fe2O3-NC nanocomposite coating and real time application on extending storability of Tomato (Solanum lycopersicum) varieties "Solan Garima</i>	

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Session 13:

09:00-09:35	IT-34	D. D. Sarma IISc, Bangalore, India	Material properties of hybrid halide perovskites
09:35-10:10	IT-35	Takayuki Ichikawa Hiroshima University, Japan	
10:10-10:45	IT-36	Satinder K Sharma IIT Mandi, India	
10:45-10:55	C-30	Pooja Kumari Univ. of Birmingham, UK	Magnetic Resonance Imaging of Li-ion Batteries
10:55-11:05	C-31	Rini Singh Hiroshima Univ, Japan	TiFe hydride as potential anode material for all-solid-state Li-ion batteries
11:05-11:15	C-32	Asok Kumar Dikshit NCCBM	Synthesis of Polymer Gel Electrolytes Blends of Poly(Vinylidene Fluoride) / Nylon-11 for Li-ion Paper Batteries
11:15-11:25	C-33	Harsh Pandey Manipal Univ. Jaipur	Separation and manipulation of semi-flexible objects in microfluidic channels

Session 14:

11:30:12:05	IT-37	Rabibrata Mukherjee IIT Kharagpur, India	
12:05-12:40	IT-38	Soumyadeep Chaudhary Tech. Univ. Chemnitz, Germany	Rational design of hierarchical porous carbon substrate via twin polymerization for Li-S batteries

Flash Talks (84-93)

12:40-13:30	84	TARUN PATODIA SURESH GYAN VIHAR UNIV.	<i>Polymer Composite Framework for Trapping of Polysulfide Formation in Li-S Batteries</i>
	85	DEEPENDRA JHANKAL MNIT Jaipur	<i>Synthesis and Characterisation of Few Layer Pristine and Nitrogen Doped CVD Graphene for Supercapacitor Applications</i>
	86	MANSI Manav Rachna University	<i>Review on Na ion batteries: Developments and challenges</i>

	87	HIMAANSHU Manav Rachna University	Review on Li ion batteries: Present and Future aspects
	88	NILIMAPRIYADARSI NI SWAIN School for Advanced Research in Polymers	Carbon Coated Bi-metallic Oxide as an Efficient and Effective Electrode Material for High-Performance Supercapacitor Application
	89	ANKITA MOHANTY CIPET	Fabrication of Mixed Metallic MOFs as Hybrid Supercapacitor Electrodes and Study of Role of Various Organic Linkers
	90	S. ARUN KUMAR CIPET:SARP-LARPM	Binder-Free 3D-NiCo-LDH Nanostructure Electrode for Electrochemical Supercapacitors
	91	GOURAV SHUKLA IIT Ghandhinagar	Modelling and Analysis of Supercapacitor using Molecular Dynamics Simulation and Graph Theory
	92	KHUSHBU SHARMA MNIT Jaipur	Sb ₂ X ₃ (X = S, Se, & Te) as Promising Anode Material for All-Solid-State Lithium-ion Batteries
	93	SHALINI SAHANI IIT-BHU	Process optimization of methyl ester production from a nonedible feedstock using Sr-Ti mixed metal oxide as heterogeneous basic catalyst: Kinetics and Thermodynamics
13:30- 14:00			Lunch Break
Session 15:			
14:00- 14:35	IT-39	Prashanth W Menezes Univ. of Berlin, Germany	Water splitting (pre)catalysts
14:35- 15:10	IT-40	Sanjay Mathur Univ. of Cologne, Germany	Efficient Photon-harvesting Technologies for Water Splitting Reactions
15:10- 15:45	IT-41	Surawut Chuangchote King Mongkut's Univ. of Tech. Thonburi, Thailand	One-dimensional Photocatalysts for Bioresource Conversions to High Value Chemicals and Fuels
Flash Talks (94-108)			
15:45-17:00	94	ANCHUPOGU PRAVEEN BAPATLA ENGINEERING COLLEGE	Effect of MWCNT as nano additives in Calophyllum Inophyllum biodiesel blends on the performance and emission parameters of a diesel engine
	95	SONAL GUPTA Govt. College, Kota	Conversion of Carbohydrates (Glucose and Fructose) into 5-HMF over Solid Acid Loaded Natural Zeolite Catalyst

	96	SHALINI DIXIT Suresh Gyan Vihar Univ.	Hydrogen storage in Co intercalated multiwalled carbon nanotubes
	97	ARUP SARKAR IPR Gandhinagar	Investigation on hydrogen adsorption on different kinds of activated carbons
	98	PRIYANKA MNIT Jaipur	Role of Supports in the Field of Single-Atom Catalysts (SACs) for Accelerating Hydrogen Evolution Reaction (HER)
	99	FANGQIN GUO Hiroshima University Japan	Hydrogen storage behaviours of BCC alloy for thermal-driven hydrogen compression
	100	MAHESH KUMAR JANGID VGU Jaipur	Hydrogenation effect on bilayer Mg-Ti thin film structure for hydrogen storage applications
	101	MANOJ KUMAR MALLICK CIPET	PANI Based Composite as Counter Electrode Materials for DSSC
	102	HEMRAJ DAHIYA LNMIT Jaipur	Study of Charge Transfer D-A Conjugate Copolymer Based on 2,8-dibromo-4,6-bis(9-n-octylthiophene-2-yl) benzo (2, 1-b: 3, 4-b':5, 6-c'') trithiophene and Non-fullerene Small molecule Acceptor for the Appl
	103	HARSHITA TRIVEDI IIT-BHU	Investigating Optical, Structural and Morphological Properties of Polycrystalline CdTe Thin-film Deposited by RF Magnetron Sputtering
	104	TARUN KUMAR JOSHI Bansthali Vidyapith	Ab-initio screening of electronic and optical properties of hybrid halide perovskite (CH ₃ CH ₂ NH ₃ PbI ₃) for photovoltaic cell application
	105	ABDULLAHI BELLO UMAR Suresh Gyan Vihar Univ.	Application of MgCl ₂ /KCl/NaCl Eutectic as Thermal Energy Storage Material for High Temperature Applications
	106	ANOOP M D MNIT Jaipur	Interdependence of Topological Insulating properties and Thermoelectric properties in Bismuth Chalcogenides
	107	SUNIKSHA GUPTA MNIT Jaipur	Investigation of Mg ₂ Si thin films with different thickness
	108	HOWLADER MNIT Jaipur	Synthesis and Characterization of Ternary Thermoelectric Magnesium Alloy Mg ₂ X (X = Si and Sn)
17:00-17:30	Closing Ceremony		